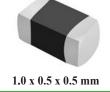
SMD Multilayer Chip Varistor

AMCV-0402LC





> FEATURES:

- SMD type, small size suitable for high density mounting
- Excellent clamping ratio and strong capability of voltage surge suppression
- Excellent solderability (Ni, Sn plating)

> APPLICATIONS:

- Transient voltage protection and voltage surge suppression for LED lighting
- Suitable for LCD-TV, STB, Switch, Router, PLC, Security System, smart meters, mobile phones
- Suppressing Induced / switching over-voltage caused by lightning and power
- Protecting DC-DC Module, I/O ports, IC driver

> STANDARD SPECIFICATIONS:

Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Storage Temperature: -10° C $\sim +40^{\circ}$ C and RH 70% (Max.)

Part Number	Max. Working Voltage		Varistor Voltage	Max. Clamping Voltage		Rated Single Pulse Transient		Typical Capacitance
Test Condition	<20 DC	DμA AC RMS	@1mA DC	8/20µs	ESD	Energy 10/1000μs	Peak Current 8/20µs	@0.5V _{rms} , 1MHz
Units	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol	$V_{ m WDC}$	V_{WAC}	V_{B}	$V_{\rm C}^{*1}$	$V_{\rm C}^{*2}$	E_{T}	I_{P}	С
ACMV-0402LC-140-C100	14.0	10.0	16.0-22.0	30	39	0.005	2	10
ACMV-0402LC-140-C120	14.0	10.0	16.0-22.0	30	39	0.005	2	12
ACMV-0402LC-180-C050	18.0	12.7	22.0-28.0	40	48	0.005	2	5
ACMV-0402LC-180-C100	18.0	12.7	22.0-28.0	40	48	0.005	2	10
ACMV-0402LC-260-C030	26.0	18.4	31.0-38.0	58	70	0.003	1	3
ACMV-0402LC-260-C100	26.0	18.4	31.0-38.0	58	70	0.005	2	10

*1: Vc, Maximum peak voltage across the varistor measured at a specified pulse current and waveform.

Energy Rating
0.00- 0.05 Joule
0.10 Joule
0.20-0.50 Joule
0.20-0.50 Joule
Pulse & Waveform
1A, 8/20µs
2A, 8/20µs
5A, 8/20µs

*2: Vc, Maximum peak voltage across the varistor measured at 30ns after initiation of pulse on IEC61000-4-2 30A/8KV.

Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

a. Ambient Temperature: 20±15°C
b. Relative Humidity: 65±20%
c. Air Pressure: 86 kPa to 106 kPa

Items	Test Methods and Remarks
Varistor Voltage at 1mA DC (V _B)	Measuring current: 1mA DC Duration: 0.2 to 2 sec
Capacitance (C)	Measure source: 0.5 V _{RMS} Test frequency: 1MHz.
Leakage Current (I _L)	Measuring voltage: Maximum DC working voltage
Clamping Voltage (V _C)	Measuring source: 8/20us waveform, ESD waveform





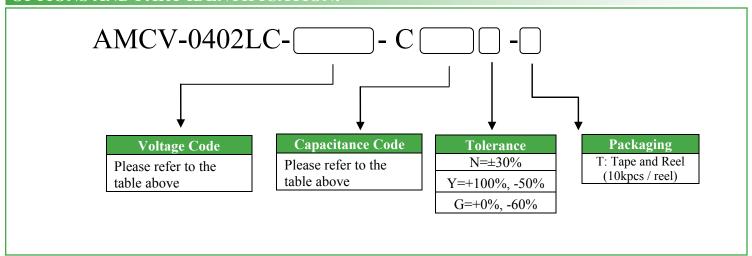
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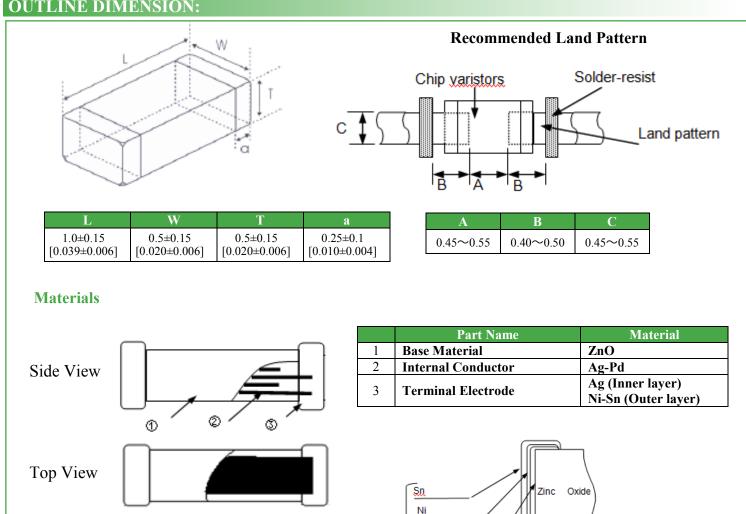








OUTLINE DIMENSION:



Ag

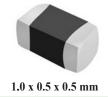




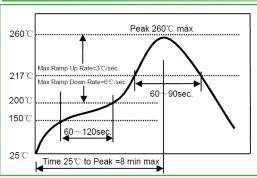
SMD Multilayer Chip Varistor

AMCV-0402LC



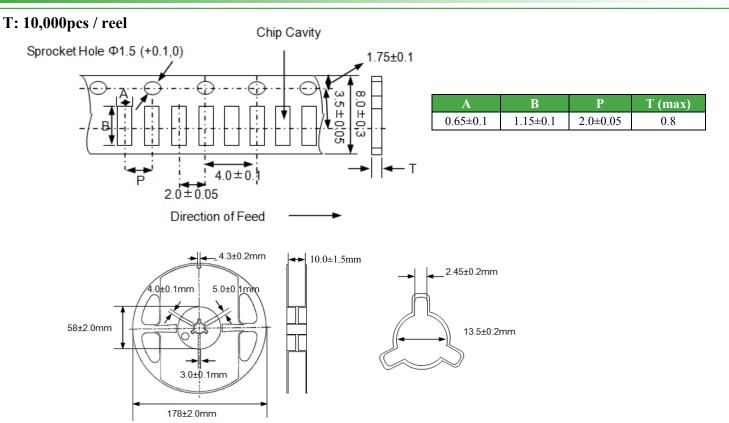


REFLOW PROFILE:



Preheat Condition	150 to 200 °C; 60 to 120 sec.			
Allowed time above 217 °C	60 to 90 sec.			
Max temperature	260 °C			
Max time at max temperature	10 sec.			
Solder paste	Sn/3.0Ag/0.5Cu			
Allowed Reflow time	2x max.			

TAPE & REEL:



Storage Conditions

- a. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity Package must be stored at 40°C or less and 70% RH or less.
- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of harmful gas (e.g. HCI, sulfurous gas of H₂S).
- Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
- d. Solderability shall be guaranteed for 6 months from the date of delivery on condition that they are stored at the environment specified in 1.3. The parts that are stored more than 6 months shall be checked solderability before use.

 Dimension: mm

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